

C-reactive protein is measured by a colorimetric competitive ELISA developed in our laboratory (Macy, et al, 1997). Biotinylated CRP competes with CRP in the sample for the coated antibody. Detection is via the enzyme horseradish peroxidase conjugated in an avidin-biotin complex followed by the color reagent substrate, orthophenylene diamine. Standardization is done using the WHO CRP reference standard. The minimum sample volume is 50 uL. Special Coagulation (SCAT-I) plasma is preferred, although citrate and EDTA plasma and serum are acceptable. The analytical CV for this assay is 5.14%. The expected normal range is 0.18 to 5.05 ug/mL.

Macy E, Hayes T, Tracy R (1997) Variability in the measurement of C-reactive Protein in Healthy subjects: implication for reference interval and epidemiological applications.
Clin Chem 43:52-58.